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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/037,243

DATE: 06/10/2002

TIME: 14:49:29

Input Set : A:\BSA01-22.txt

Output Set: N:\CRF3\06102002\J037243.raw

ENTERED

3 <110> APPLICANT: Brookhaven Science Associates, LLC.
 4 Freimuth, Paul I
 5 Zhang, Yian-Biao
 6 Howitt, Jason A
 8 <120> TITLE OF INVENTION: Facilitating Protein Folding and Solubility by Use of
 Peptide Extensions
 10 <130> FILE REFERENCE: BSA 01-22
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/037,243
 C--> 13 <141> CURRENT FILING DATE: 2002-06-03
 15 <160> NUMBER OF SEQ ID NOS: 46
 17 <170> SOFTWARE: PatentIn version 3.1
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 57
 21 <212> TYPE: PRT
 22 <213> ORGANISM: Artificial Sequence
 24 <220> FEATURE:
 25 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic bacteriophage

T7 g

26 ene 10B protein
 28 <400> SEQUENCE: 1
 30 Phe Gln Ser Gly Val Met Leu Gly Val Ala Ser Thr Val Ala Ala Ser
 31 1 5 10 15
 34 Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu Thr Pro Ala
 35 20 25 30
 38 Gln Glu Ala Ala Arg Thr Arg Ala Ala Asn Lys Ala Arg Lys Glu Ala
 39 35 40 45
 42 Glu Leu Ala Ala Ala Thr Ala Glu Gln
 43 50 55
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 47 <211> LENGTH: 6
 48 <212> TYPE: PRT
 49 <213> ORGANISM: Artificial Sequence
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 52 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic motif
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 56 Ala Ala Asn Lys Ala Arg
 57 1 5
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 61 <211> LENGTH: 6
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 63 <213> ORGANISM: Artificial Sequence
 65 <220> FEATURE:
 66 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic recognition
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68 <400> SEQUENCE: 3
70 Ala Ala Asn Asp Glu Asn

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84 Cys Leu Glu Asp Pro Ala Ala Asn Lys Ala Arg Lys Glu Ala Glu Leu
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88 Ala Ala Ala Thr Ala Glu Gln
89          20
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93 <211> LENGTH: 61
94 <212> TYPE: PRT
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7C peptide
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102 Leu Glu Asp Pro Phe Gln Ser Gly Val Met Leu Gly Val Ala Ser Thr
103 1          5          10          15
106 Val Ala Ala Ser Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr
107          20          25          30
110 Leu Thr Pro Ala Gln Glu Ala Ala Arg Thr Arg Ala Ala Asn Lys Ala
111          35          40          45
114 Arg Lys Glu Ala Glu Leu Ala Ala Ala Thr Ala Glu Gln
115          50          55          60
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120 <212> TYPE: PRT
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B peptide
126 <400> SEQUENCE: 6
128 Leu Glu Asp Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu
129 1          5          10          15
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133          20          25          30
136 Lys Glu Ala Glu Leu Ala Ala Ala Thr Ala Glu Gln
137          35          40
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143 <213> ORGANISM: Artificial Sequence
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146 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B1 peptide
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150 Leu Glu Asp Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu
151 1          5          10          15

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158 Lys Glu Ala Glu Leu Thr Ala Glu Gln
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170 <400> SEQUENCE: 8
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173 1                5                10                15
176 Thr Pro Ala Gln Glu Ala Ala Arg Thr Arg Pro Pro Asn Lys Ala Arg
177                20                25                30
180 Lys Glu Ala Glu Leu Ala Ala Ala Thr Ala Glu Gln
181                35                40
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189 <220> FEATURE:
190 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B3 peptide
192 <400> SEQUENCE: 9
194 Leu Glu Asp Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu
195 1                5                10                15
198 Thr Pro Ala Gln Glu Ala Ala Arg Thr Arg Gly Gly Asn Lys Ala Arg
199                20                25                30
202 Lys Glu Ala Glu Leu Ala Ala Ala Thr Ala Glu Gln
203                35                40
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212 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B4 peptide
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217 1                5                10                15
220 Asn Lys Ala Arg Lys Glu Ala Glu Leu Ala Ala Ala Thr Ala Glu Gln
221                20                25                30
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226 <212> TYPE: PRT
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B5 peptide
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235 1          5          10          15
238 Thr Pro Ala Gln Glu Ala Ala Arg Thr Arg Ala Ala Asn Lys Ala Arg
239          20          25          30
242 Lys Glu Ala Glu Leu Glu Ala Glu Thr Ala Glu Gln
243          35          40
246 <210> SEQ ID NO: 12
247 <211> LENGTH: 44
248 <212> TYPE: PRT
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252 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B6 peptide
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257 1          5          10          15
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261          20          25          30
264 Lys Glu Ala Glu Leu Glu Ala Glu Thr Ala Glu Gln
265          35          40
268 <210> SEQ ID NO: 13
269 <211> LENGTH: 44
270 <212> TYPE: PRT
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B7 peptide
276 <400> SEQUENCE: 13
278 Leu Glu Asp Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu
279 1          5          10          15
282 Thr Pro Ala Gln Glu Ala Ala Arg Thr Arg Ala Ala Asn Lys Ala Glu
283          20          25          30
286 Glu Glu Ala Glu Leu Glu Ala Glu Thr Ala Glu Gln
287          35          40
290 <210> SEQ ID NO: 14
291 <211> LENGTH: 44
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B8 peptide
298 <400> SEQUENCE: 14
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301 1          5          10          15
304 Thr Pro Ala Gln Glu Ala Ala Glu Thr Glu Ala Ala Asn Lys Ala Glu
305          20          25          30
308 Glu Glu Ala Glu Leu Glu Ala Glu Thr Ala Glu Gln
309          35          40
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313 <211> LENGTH: 39
314 <212> TYPE: PRT
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:

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Input Set : A:\BSA01-22.txt

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318 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B9 peptide

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322 Leu Glu Asp Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu

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326 Thr Pro Ala Gln Glu Ala Ala Arg Thr Arg Ala Ala Asn Lys Ala Arg

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330 Lys Glu Ala Glu Leu Ala Ala

331 35

334 <210> SEQ ID NO: 16

335 <211> LENGTH: 40

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339 <220> FEATURE:

340 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B10 peptide

342 <400> SEQUENCE: 16

344 Leu Glu Asp Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu

345 1 5 10 15

348 Thr Pro Ala Gln Glu Ala Ala Arg Thr Arg Ala Ala Asn Lys Ala Arg

349 20 25 30

352 Lys Glu Ala Glu Leu Ala Ala Ala

353 35 40

356 <210> SEQ ID NO: 17

357 <211> LENGTH: 44

358 <212> TYPE: PRT

359 <213> ORGANISM: Artificial Sequence

361 <220> FEATURE:

362 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B11 peptide

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367 1 5 10 15

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371 20 25 30

374 Lys Glu Ala Glu Leu Ala Ala Ala Thr Ala Glu Gln

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381 <213> ORGANISM: Artificial Sequence

383 <220> FEATURE:

384 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B12 peptide

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388 Leu Glu Asp Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu

389 1 5 10 15

392 Thr Pro Ala Gln Glu Ala Ala Arg Thr Arg Lys Ala Arg Lys Glu Ala

393 20 25 30

396 Glu Leu Ala Ala Ala Thr Ala Glu Gln

397 35 40

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401 <211> LENGTH: 41

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/037,243

DATE: 06/10/2002

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Input Set : A:\BSA01-22.txt

Output Set: N:\CRF3\06102002\J037243.raw

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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date